

(C) WPI/Derwent

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CPY - KANT-N

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IC - B28D1/24 ; B28D5/02 ; C04B38/00

MC - L02-D09 L02-G

PA - (KANT-N) KANTO ZEOLITE KK

PN - JP2001058318 A 20010306 DW200127 B28D5/02 007pp

PR - JP19990271005 19990819

XA - C2001-079420

XIC - B28D-001/24 ; B28D-005/02 ; C04B-038/00

XP - N2001-189081

AB - JP2001058318 NOVELTY - The ceiling plate (3) has zeolite crystalline consisting of clinoptilolite or mordenite and volcano glassy components with water resistant property and specific surface area of 15 m<sup>2</sup>/g. The base exchange capacity is 150mg or more. The zeolite ore of particle size is 4.8-5.8 mm and 0.5 or 2.0 mm are included in the plate. Diamond cutter is used to cut zeolite plate of 3 mm thickness.

- USE - In construction of ceilings for flats and independent houses.

- ADVANTAGE - Comfortable habitation space is achieved by the ceiling plate and the fire resistance of plate is more than 100 deg. C. Specific surface roughness is achieved by the surface treatment and the plate has superior thermal insulation property and various color designs can be achieved. The degradation gas are absorbed and excess humidity and propagation of the bacteria floating and bacillus are prevented.

- DESCRIPTION OF DRAWING(S) - The figure shows perspective view of ceiling plate. (Drawing includes non-English language text).

- Zeolite plate 3

- (Dwg.3/6)

IW - CEILING PLATE FLAT INDEPENDENT HOUSE SPECIFIC COMPOSITION ZEOLITE CRYSTAL GLASS COMPONENT CUT SPECIFIC THICK SIZE  
IKW - CEILING PLATE FLAT INDEPENDENT HOUSE SPECIFIC COMPOSITION ZEOLITE CRYSTAL GLASS COMPONENT CUT SPECIFIC THICK SIZE

NC - 001

OPD - 1999-08-19

ORD - 2001-03-06

PAW - (KANT-N) KANTO ZEOLITE KK

TI - Ceiling plate for flats and independent houses includes specific composition of zeolite crystalline and valcano glassy components being cut to specific thickness and size

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

PUBLICATION NUMBER : 2001058318  
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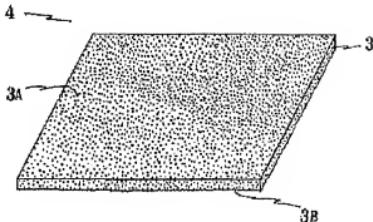
APPLICATION DATE : 19-08-99  
APPLICATION NUMBER : 11271005

APPLICANT : KANTO ZEOLITE KK;

INVENTOR : ISHIYAMA YOSHIYASU;

INT.CL. : B28D 5/02 B28D 1/24 C04B 38/00

TITLE : INTERIOR FINISH PLATE FOR  
BUILDING



**ABSTRACT :** PROBLEM TO BE SOLVED: To obtain an interior finish plate for building which is fitted to the ceiling, wall, and floor of a closed habitable space, adsorbs/decomposes/ eliminates gaseous evaporated chemicals and odors, absorbs excess moisture, prevents the propagation of floating bacteria and molds, and maintains a safe, comfortable, hygienic habitable space over a long period.

**SOLUTION:** A zeolite mineral which comprises crystalline zeolite and volcanic vitreous materials and has water resistance to prevent collapse by moisture absorption/water absorption, a specific surface area of at least 15 m<sup>2</sup>/g, a base substitution capacity of meq/100 g and Mohs hardness of 4.8-5.8 is cut directly by a diamond particle blade having diamond particles 0.5-2.0 mm in diameter into pieces having at least 3 mm thickness and a required area to make a zeolite plate 3, which is dried to be 3.0% or below in water content. A coating layer coated with a binder made of cement, gypsum, diatomaceous earth, or clay containing substantially at least 0.1 wt.% of electromagnetic wave radiation ceramic fine powder which can excite water molecules is formed at least on one side of the plate.

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